

What is claimed is:

[Claim 1] 1. A capacitor structure, comprising:

a conductive layer, wherein the conductive layer has a first spiral pattern and a second spiral pattern arranged alternatively with respect to each other; and a dielectric layer, disposed between the first spiral pattern and the second spiral pattern.

[Claim 2] 2. The capacitor structure of claim 1, wherein the first spiral pattern comprises an arc shaped spiral pattern.

[Claim 3] 3. The capacitor structure of claim 1, wherein the first spiral pattern comprises a rectangular spiral pattern.

[Claim 4] 4. The capacitor structure of claim 1, wherein the second spiral pattern comprises an arc shaped spiral pattern.

[Claim 5] 5. The capacitor structure of claim 1, wherein the second spiral pattern comprises a rectangular spiral pattern.

[Claim 6] 6. A capacitor structure, comprising:

a plurality of conductive layers, wherein the conductive layers are mutually stacked against each other, and each of the conductive layers has a first spiral pattern and a second spiral pattern arranged alternatively with respect to each other;

a dielectric layer, disposed between the first spiral pattern and the second spiral pattern and between pairs of adjacent conductive layers;

at least a first contact window, disposed in the dielectric layer for electrically connecting the first spiral patterns of two adjacent conductive layers; and

at least a second contact window, disposed in the dielectric layer for electrically connecting the second spiral patterns of two adjacent conductive layers.

[Claim 7] 7. The capacitor structure of claim 6, wherein the first spiral patterns of two adjacent conductive layers are completely overlapping each other.

[Claim 8] 8. The capacitor structure of claim 6, wherein the first spiral patterns of two adjacent conductive layers are not completely overlapping each other.

[Claim 9] 9. The capacitor structure of claim 6, wherein the second spiral patterns of two adjacent conductive layers are completely overlapping each other.

[Claim 10] 10. The capacitor structure of claim 6, wherein the second spiral patterns of the two adjacent conductive layers are not completely overlapping each other.

[Claim 11] 11. The capacitor structure of claim 6, wherein the first spiral pattern comprises an arc shaped spiral pattern.

[Claim 12] 12. The capacitor structure of claim 6, wherein the first spiral pattern comprises a rectangular spiral pattern.

[Claim 13] 13. The capacitor structure of claim 6, wherein the second spiral pattern comprises an arc shaped spiral pattern.

[Claim 14] 14. The capacitor structure of claim 6, wherein the second spiral pattern comprises a rectangular spiral pattern.